

From: [Jump, Christine](#)
To: [Michael Stephenson](#); [SMITH, MARTIN L](#)
Subject: FW: dalapon
Date: Wednesday, May 14, 2014 4:50:00 PM
Attachments: [EPA Region 7 Laboratory Analysis Information 14_05_14_02_07_00.txt](#)

Mike-

Attached is the response I received from out lab people on the dalapon question. I am not a chemist, so I don't know how clear the information in the attachment will be to you or your contract lab, but Margie said you are welcome to call her if there are questions.

Margie St. Germain – 913-551-5154.

Chris Jump, L.G.
Waste Remediation and Permitting Branch
US EPA, Region 7
jump.chris@epa.gov
(913) 551-7141

Mailing address: 11201 Renner Boulevard, Lenexa, KS 66219

From: StGermain, Margie
Sent: Wednesday, May 14, 2014 2:19 PM
To: Jump, Christine
Subject: RE: dalapon

Chris,

The method that you want to use is called Herbicides in Soil. This method also looks for 2,4-D. I have included a description of the procedure.

Our contractor can perform the analysis including Dalapon. Typical reporting limits are 10 ug/kg or 0.010 mg/kg. This should not be a problem to meet the RSL.

If you have any questions, feel free to call me. I am at the RO on Thursday this week.

Margie
x-5154

From: Jump, Christine
Sent: Monday, May 12, 2014 1:08 PM
To: StGermain, Margie
Subject: dalapon

Margie-

I don't know if you are the person to ask or not, but I have a site where we are looking for the herbicide dalapon in the soil. The RSL soil to GW numbers are very low for this compound (0.041 mg/kg).

What analytical method should the PRP be using and what detection/quantitation limits should they be able to achieve (under ideal circumstances)?

Thanks.

Chris Jump, L.G.

Waste Remediation and Permitting Branch

US EPA, Region 7

jump.chris@epa.gov

(913) 551-7141

Mailing address: 11201 Renner Boulevard, Lenexa, KS 66219

05/14/2014 14:07

EPA Region 7 Laboratory Analysis Information

1 of 2

Analysis Short Name Herb S. 2I

Analysis Name: Herbicides in Soil by GC/EC

Parameter Class: Pesticides

Matrix: Solid Analysis Status: Current

This analysis provides analytical data for 5 chlorophenoxy acid compounds in a soil sample by RLAB

Method 3240.2. Soil samples are analyzed for total herbicides and originate from an array of different

sources, as well as different programs, such as Superfund and RCRA. However, this method still

satisfies all of the applicable program requirements (and potentially other programs as well). This

analysis is based on SW-846 Method 8150 and SW-846 8151A.

The presence and concentrations of these compounds are determined through an extraction phase

followed by analysis of the extract. An subsample, 50 g, is acidified with sulfuric acid and extracted with

acetone and diethyl ether. A hydrolysis step is included which produces an extract that will contain all

forms of the herbicides. The analysis is conducted by injecting the sample extract into a gas

chromatograph (GC) with an electron capture detector (EC). Compound reporting limits are typically in

the low (<10) part per billion range. Matrix interferences can occur and may complicate the analytical

process. If there is a matrix interference, dilutions may be performed and higher reporting limits

reported. Potential other sources of interferences include contaminated laboratory equipment and/or

chemicals. However, higher reporting limits are typically the result of the sample matrix interferences

and not laboratory materials.

Analysis Summary:

Method: RLAB Method 3240.2I Herb Date Adopted: 07/24/2012 Date Replaced:

EPA Region 7 RLAB Method 3240.2I

Method Desc:

Organic Analyses by GC/ECD

Method Title:

This analysis is performed using Region 7 RLAB Method 3240.2I. The samples are extracted from the

various matrixes using methylene chloride. The extracts are concentrated, cleaned up according to RLAB

Method 3210.2, if necessary, and exchanged to iso-octane. The samples are analyzed by GC/ECD using

dual column confirmation. The method is based on RCRA SW846 methods 8081, 8082, 8150, 3535, and

EPA method 608.

Method Summary:

RLAB Method 3240.2I

SW846 8150

SW846 8151A

Base Method(s)

Pesticides and Herbicides by GC/ECD

Chlorinated Herbicides by GC Using Methylation or

Pentafluorobenzyl ation Derivatization

Title

Analysis

Analysis

Analysis

Type

EPA_Regi on_7_Laboratory_Anal ysi s_I nformati on_1. txt

EPA (In-House)
RASP (Out-Source)
Capabl e Labs:

♀

EPA Region 7 Laboratory Analysis Informatio 2 of 2 05/14/2014 14:07

Analysis Name: Herbicides in Soil by GC/EC

Previous Method: RLAB Method 3240.2H Date Adopted: 01/21/2010 Date Replac ed:
07/24/2012

Sample Holding Time 14 Extract Holding Time: 40 Weight Type: Dry

Container Type: 8 oz glass No Of Containers: 1 No Of Tags: 1

Preservative: 4 Deg C

RLAB Method 3230.2C S

Sampling Info:

Collect soil samples in 8 oz glass containers. Follow conventional sampling
practices. Ice or refrigerate

the samples at 4 degrees C from the time of collection until extraction.

Sampling Narative:

Yes

Yes

Yes

Con

Non

Con

Con

Yes

Non

Con

Con

Con

Yes

Non

Non

Surr

Default

Report Flag

2, 4, 5-T

2, 4, 5-TP

2, 4-D

2, 4-DB

Bentazon

Chl oramben

Dal apon

Di camba

Di chl orprop

Di noseb

MCPA

MCP P

Pentachl orophenol

Pi cl oram

Tri cl opyr

DCPAA

Analyte Name

93-76-5

93-72-1

94-75-7

94-82-6

25057-89-0

133-90-4

75-99-0

1918-00-9

120-36-5

88-85-7

94-74-6

EPA_Regi on_7_Laboratory_Anal ysi s_I nformati on_1. txt

7085-19-0

87-86-5

1918-02-1

55335-06-3

CAS Number

10

10

20

10

20

4

7.5

TRL

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

% Rec

Uni ts

Certi fi ed

Certi fi ed

Certi fi ed

Certi fi ed

Certi fi ed

RLAB Nel ac Status

SW846 8151

SW846 8151

SW846 8151

SW846 8151

SW846 8151

RLAB NELAC Status applies speci fi cally to analyses performed in the Regi on 7 Laboratory. Analyses done by out-source contract labs may not have thi s certi fi cati on.

Days Days

Con

Non

Surr

Yes

Default Report Flag: Analyte that is not reported from in-house analysis and must be obtained through an out-source contract lab.

Analyte that is not routinely reported from in-house analysis, but can be if it is needed.

Surrogate compound for quality control purposes.

Analyte that is routinely reported from in-house analysis.

♀